

101-30-10600

MARTIN RIVER

101-30-60

4-23-75

Novak, Ahrendt

Gradient increases from this point
as the river climbs from 400'
elevation to 4000'.

Station #1

38° F.

Good riffles
4-6' dia.

25% pools above, 2' D.

25' falls

Upper available spawning
(with barrier alteration)
area ends at falls.

--25' falls barrier. No upstream migrations past
this block. 50 yards of rapid, falls and pool area.

Station #2--- --70'

36° F.

-- block (7' falls)
8' wide.

H E M L O C K

S P R U C E

--Rapids - chute surveyed
for possible steep-pass.

SNOWSLIDE AREA

POTENTIAL
VELOCITY BLOCK

Low rapids immediately below
the narrow section that forms
the critical area.

LANDSLIDE
AREA

90% ASA to block
90% riffle area from
just above Wolverine
Creek to block.

Gravel throughout the lower
area is 2-4" dia.

S P R U C E

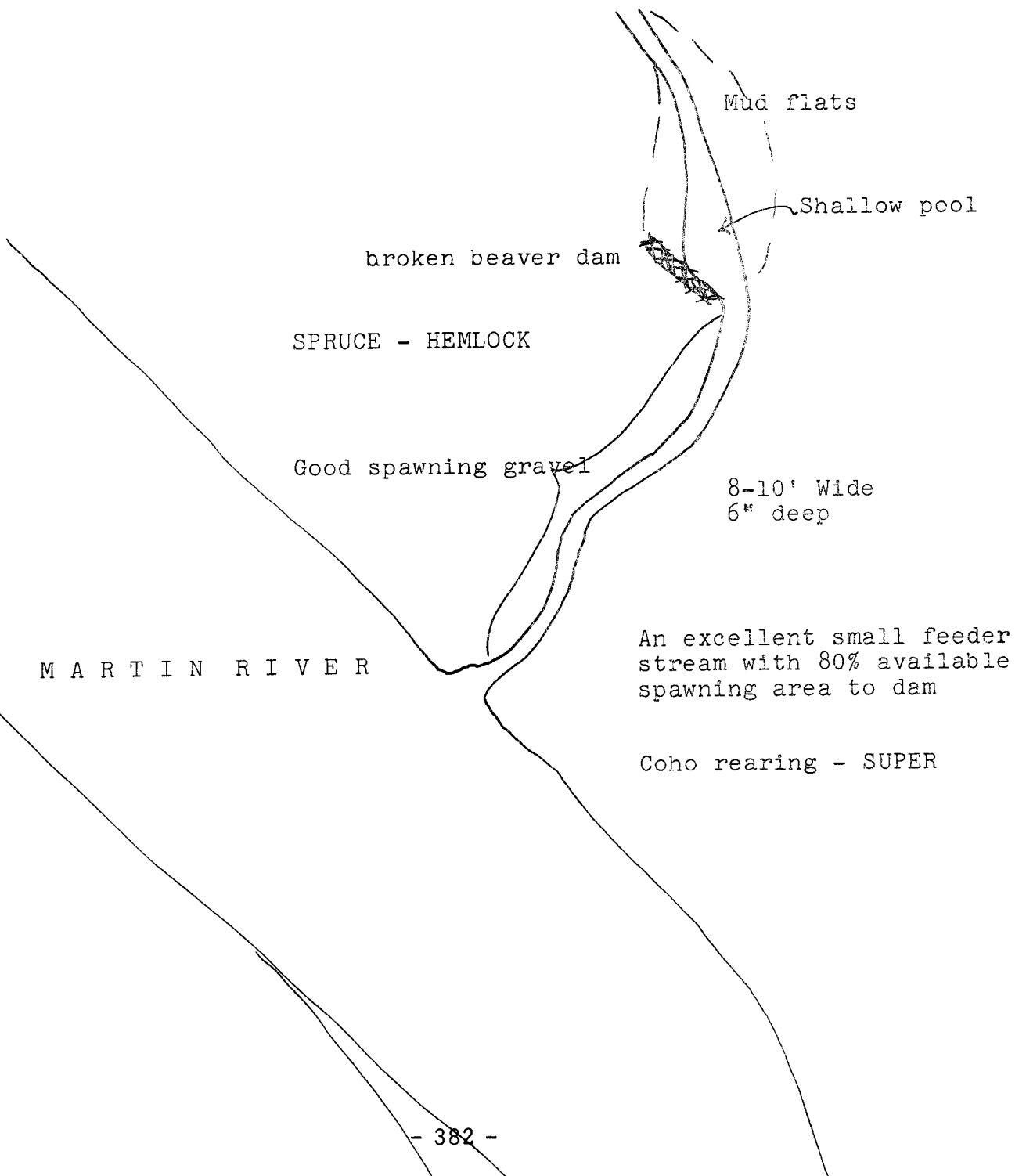
H E M L O C K

Blocks start at this point as the stream
climbs the mountain.

101-30-60

2nd stream on north side
of Martin River

Novak, Downey, Joyner



101-30-10600

Marten

Name Martin River Catalog No. 101-30-60

Latitude N 55° 19' 56" 55° 09' 30" WR No. 20

Longitude W 130° 29' 10" 130° 31' 47" K No. 23

Geodetic Map No. Ketchikan A-1, A-2, B-1 Work Area Ketchikan

Location Boca de Quadra-Marten Arm B-2. Watershed Length 39 miles (including Red R.)

Drainage Area of Watershed 134.4 sq. miles (polar planimeter)

Water Supply Type Small glaciers, snowfields and ground water. Over 4 miles of lower end influenced by tide level.

Trails & Survey Routes Small skiff may navigate 4.5 miles of lower river. Good walking conditions to velocity block 7 miles upstream.

Aerial Survey Notes Excellent conditions. Water clear, wide valley, light colored substrate. Survey during periods of low rainfall.

Altitude Large vessel anchor near south shore close to flats droff off in 20-30 fathoms of water.

Tide Stage When Surveyed First half of flood.

FISHERY RESOURCES

Commercial Fisheries Pink and chum major species. Coho, king and a few sockeye use the system annually.

Escapement High historic - pink 200,000(1948), chum 30,000(1948), king 300(1950), coho 4000(1950), red 21(1951). Ave. Esc. 1961-74 39,450. Spawn. area lower area = 556411m²; 90% ASA, 280'W 23,760'L. Mid. area 115883m² (90% ASA 9240'L, 150' W). Upper area - 80934 m² (50%ASA, 29.040'L, 60'W). Total spawn. area: 672,294 (lower & mid. areas)

Timing Early - July, August with peak occurring approximately Aug. 20.

Schooling areas Major ITZ areas found in area of mouth of Red River. Large pools near upper ITZ. Area of Wolverine Creek downstream to Rock Island.

Shellfish Potential Dungeness, Tanner and possible King crab in Marten Arm. Shrimp also present in Marten Arm.

Sport Fisheries Cutthroat, steelhead, Dolly Varden, coho, king, pink and chum salmon. Halibut off flats during salmon run.

Land Use at Present None other than possible gaging station operations on the Red River.

History of Land Use Mining development between Red River and Martin River during 1940's. Handlogging along river. Gaging station - Red River.

Rehabilitation Potential Velocity block present 11 miles above mouth. Rehab. of this block increases 5.5 miles of stream for spawning.

Flows Stable throughout the entire system except in area of velocity block where frequent slides enter stream from west.

FAUNA RESOURCES

Beaver -----	Fish carcasses or bones (old or fresh) or tracks, estimate	1
	Number of droppings	0
Bees -----	Number seen on tide flats	34
	Number seen up creek	0
	Number of broods seen	0
Birds -----	Number seen on tide flats	50
	Number seen up creek	10
	Number of broods seen	0
Chickadees -----	Number of xxxx broods seen	6
Gold Pheasant -----	Number seen along creek	0
	Number of nests seen and location	0
Salmon -----	Number seen at mouth of stream	4
Wild Flows -----	Estimate length along beach	2 miles
	Estimate depth out from beach	1 mile
	Red grass present on what percent of flats	2%

PEAK ESCAPEMENT RECORD

Martin River
101-30-60

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-6-28	85,000	15,000	500 coho	
8-13-37	10,000			10,000 off mouth.
9-16-39				Poor. Evidence of early run seen.
9-12-40	5,000	8,000		Poor. 500 @ mouth.
9-20-41				Many reported before rainy period.
9-13-42	10,000	10,000		Poor. 10,000 off mouth. Run declining.
9-19-47	10,000	2,000		Poor. 10,000 @ mouth.
8-18-48	200,000	30,000		Good.
8-27-49	159,000			
8-7-50	30,000		300 king, 7-16 4000 coho 9-9	Excellent condition.
8-6-51	71,600	1,100	130 king, 21 red	Some fish off mouth. 100 dead pinks, 100 dead chums.
8-7-52	41,800	1,300	70 king 350 coho, 9-23	Fish in 1st half mile. 350 dead chums.
8-6-53	9,100	750	121 king	Fish moving up. 125 dead chums.
8-12-54	14,000	450		None at mouth.
8-23-55	7,000			Fresh pinks entering.
8-21-56	28,000			
8-19-57	3,100	200		2400 chum, 7-22. None at mouth. Some dead chum.
8-9-60	15,000	Some		Few at mouth.
8-2-61	12,300	150		
8-25-62	20,000			Vis. poor.
8-7-63	38,000	1,700		Vis. good. 800 @ I.T.
8-20-64	13,400	1,000		Vis. good. Stream high. Few I.T.
8-26-65	20,000	500	43 kings	